WHAT IS CLAIMED IS:

1. A system for enabling code execution from non executable memory, comprising:

- An executing entity, for executing code for a host system;
- A non-executable memory component, for storing system code and data; and.
- iii. An executable memory component, for operating as a memory buffer for executing said code, such that a portion of contents of said non-executable memory component is located within said executable memory component, and said portion of contents of said non-executable memory component emulates executable functions of said executable memory component.
- 2. The system of claim 1, wherein said executable memory component employs a downloading mechanism for downloading requested data from said non-executable memory component to said executable memory component, such that data addresses requested by said executing entity are downloaded to said executable memory component.
- 3. The system of claim 1, wherein said non-executable memory component is selected from the group consisting of NAND flash components, serial EEPROM and flash memory components, such that said non-executable memory component functions as an executable memory.

8. A system for executing code using non-executable memory, comprising:

- i. An executing entity, for executing code;
- ii. A non-executable memory component, for storing said code and data; and.
- buffers for preventing memory lockage for accesses to said data during download operations of said code.
- 5. The system of claim 4, wherein each of said plurality of memory buffers include download logic and memory buffer space.
- 6. A method for executing code using non-executable memory, comprising the steps of:
- i. providing executable memory, for buffering at least one code request from an executing entity;
- ii. providing a non-executable memory, for storing executable code;
- iii. downloading at least a portion of said executable code to said executable memory, for emulating executable functions of said executable memory;
- iv. executing at least one said code request from said executable memory; and
- v. buffering an execution of contents of said non-executable memory in said executable memory.
- 7. The method of claim 6, further comprising the steps of:
- a) managing at least one set of instructions to guarantee availability of said contents in an executable buffer; and
- b) supplying a busy signal in cases where said contents are not available, such that the executable entity delays the read cycle until said contents are available.

- 8. The method of claim 6, wherein said downloading at least a portion of said executable code includes the steps of:
- (a) querying said executable memory for data; and
- (b) when queried address of said data is only available in non-executable memory, initiating a download operation from a required location of said non-executable memory, to a buffer area of said executable memory.

The method of claim 6, such that step iv further includes:

- I. providing a plurality of executable memory buffers for preventing said portion of said non-executable memory from being locked for accesses during *said* downloading operation;
- II. loading said executable code to one of said plurality of executable memory buffers; and
- III. maintaining at least one of additional said executable memory buffers, to be accessible to said host system and executable by said *host system*.

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